

COMPOSITIONS AND METHODS FOR ENHANCING DRUG DELIVERY ACROSS AND INTO OCULAR TISSUES

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ABSTRACT OF THE DISCLOSURE

10 This invention provides compositions and methods for enhancing delivery of
drugs and other agents across epithelial tissues, including into and across ocular tissues and
the like. The compositions and methods are also useful for delivery across endothelial
tissues, including the blood brain barrier. The compositions and methods employ a delivery
enhancing transporter that has sufficient guanidino or amidino sidechain moieties to enhance
delivery of a compound conjugated to the reagent across one or more layers of the tissue,
compared to the non-conjugated compound. The delivery-enhancing polymers include, for
example, poly-arginine molecules that are preferably between about 6 and 25 residues in
15 length.

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